

Code: 9A05501

B.Tech III Year I Semester (R09) Supplementary Examinations June 2017

PRINCIPLES OF PROGRAMMING LANGUAGES

(Common to CSE and ECC)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) What is a script? Explain different scripting languages.
(b) Describe characteristics that contribute to the readability of a programming language.
- 2 (a) Define CFG. State whether CFG is a language generator or recognizer.
(b) What is a parse tree? Explain with an example.
(c) What is an assertion? Explain with an example.
- 3 (a) Explain about named constants and variable initialization.
(b) Explain the concepts of type checking and type compatibility in detail.
- 4 (a) Explain Relational and Boolean expressions with examples.
(b) Explain short circuit evaluation of expressions.
- 5 (a) Explain about generic and overloaded functions.
(b) What are co routines? In what way co-routines different from conventional subprograms?
- 6 Explain in detail abstract data types in C++ with examples.
- 7 (a) What are different classes of exceptions in Java?
(b) Explain with suitable example, finally clause in Java.
- 8 (a) What is a package? Explain them with respect to python language.
(b) Discuss in detail about the various data types and structures that are present in LISP.
